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SPECIFICATION AMENDMENT

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On page 9, lines 18-27, please amend the specification as follows:

Figure 3 is a schematic block diagram of the digital transmitter processing module 76 and the digital-to-analog converter 78. In this embodiment, the digital transmitter processing module 76 includes a digital baseband encoding module 100, an Inverse Fast and/or discrete Fourier Transform (IFFT and/or IDFT) module 102 and a complex digital filter 104. The digital-to-analog converter 78 is a complex digital-to-analog converter and includes an in-phase digital-to-analog converter 78-I and a quadrature digital-to-analog converter 78-Q. The digital baseband encoding module performs a baseband encoding protocol, such as BPSK OFDM, QPSK OFDM, 16 QAM OFDM, and/or 64 QAM OFDM. In particular, the digital baseband encoding module 100 may include a forward error correction coder and an interleaving and mapping module to produce outbound symbols 108.

On page 9, line 29, through page 10, line 10, please amend the specification as follows:

The IFFT and/or IDFT module 102 converts the outbound symbols 108 into complex time domain sample sequence 110. The functionality of an inverse fast Fourier transform is known, thus, no further discussion will be presented except to further illustrate the concepts of the present invention. The complex digital filter 104, which may be a low pass filter and/or bandpass filter and will be described in greater detail with reference to Figures 4 and 5, filters the complex time domain sample sequence 110 to produce filtered complex time domain sample sequence 112. In general, the complex digital filter 104 is a low pass filter to provide further attenuation of frequencies outside the bands of interest (i.e., filters undesired channels and passes the desired channel). For instance, the complex digital filter 104 provides a faster roll-off of the channels at the boundaries of the frequency spectrum such that when the in-phase and quadrature components are converted into radio frequency signals, the out-of-band signal strength is

at or below the required signal strength of the exclusion bands for non-prescribed transmissions.

On page 11, lines 7 – 13, please amend the specification as follows:

Figure 6 is a schematic block diagram of an alternate embodiment of the digital transmit processing module 76 coupled to the complex digital-to-analog converters 78-I and 78-Q. In this embodiment, the digital transmit processing module 76 includes the digital baseband encoding module 100, a digital filter 130 and the inverse fast and/or discrete Fourier transform module 102. In this embodiment, the digital baseband encoding module 100 converts outbound data 94 into outbound symbols 108 in accordance with a baseband encoding protocol prescribed by a particular standard (e.g., IEEE 802.11(g)).

On page 11, lines 22 - 25, please amend the specification as follows:

The IFFT and/or IDFT module 102 converts the filtered outbound symbols 130 into complex time domain sample sequence 134. The complex digital-to-analog converters 78-I and 78-Q convert the complex time domain sample sequence 134 into in-phase analog signal components (I) and quadrature analog signal components (Q).